

# PATENT ABSTRACTS OF JAPAN

(11) Publication number : 2000-237548

(43) Date of publication of application : 05.09.2000

(51) Int.Cl.

B01D 63/04

B01D 65/02

C02F 1/44

(21) Application number : 11-038793

(71) Applicant : TOKYO DENKI KOMUSHO CO LTD

(22) Date of filing : 17.02.1999

(72) Inventor : NOZAKI MASAO

KAWAMORI HIDENOBU

(54) HOLLOW FIBER MEMBRANE TYPE HEAT STORAGE TANK WATER PURIFYING DEVICE

(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a purifying method and device of heat storage water capable of improving purifying efficiency and capable of simply and surely regenerating hollow fiber membrane.

**SOLUTION:** A plurality of hollow fiber membrane elements are arranged in a closed vessel 1 across a raw water region 3 and a treated water region 4, and the stage in which the purifying cycle for discharging purified treated water and the regeneration cycle of the hollow fiber membrane elements are alternately repeated, and a part of the treated water is allowed to flow out to a treated water tank 45 and the remainder is left at the treated water region as the clean water for back washing, the stage in which air bubbling is executed by injecting air from the top part of the treated water region and back washing the hollow fiber membrane elements, the stage in which the hollow fiber membrane elements are subjected to the air bubbling in the opposite direction by passing air from the raw water side, the stage in which the raw water after air bubbling at the raw water region is discharged from a drain pipe 14, the stage in which rinse water is introduced to the raw water region from a raw water

